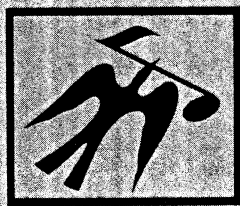


SERVICE MANUAL



FISHER

MT-101

**Belt-Drive DC-Servo
Semi-Automatic Turntable
(EUROPE)**



The first name in high fidelity

SPECIFICATIONS

TURNTABLE	MT-101
Motor	DC Servo
Drive	Belt
Wow and Flutter (WRMS)	0.08 %
Rumble (DIN 455398)	-65 dB
Speed Variation	±0.8 %
Tracking Force Range	0.6 - 3.5 grams
Platter Diameter	300 mm
Platter Weight	0.5 kg
Record Speed Selector	33/45 rpm
Auto Function	
Stop	Yes
Reject	Yes
Manual Function	
Start	Yes
Stop	Yes
Tone Arm Data	
Resonance	< 10 Hz
Balance Adjustment	Counter-Weight
Effective Length	222 mm
Shape	Straight
Bearing-Type	
Horizontal	Thrust
Friction Sensitivity	0.2 gram
Vertical	Pivot
Friction Sensitivity	0.25 gram
Max. Tracking Error	±2.0°
Anti Skate Control	Adjustable
Cueing	Viscous Damped
GENERAL	
Power Requirements	AC: 220 V, 50 Hz
Dimensions (W x D x H)	400 x 345 x 108 mm
Weight (approx.)	3.5 kg

* Because its products are subject to continuous improvement, Fisher Corporation reserves the right to modify product designs and specifications without notice and without incurring any obligation.

MOUNTING THE CARTRIDGE

- Carefully mount the cartridge according to the maker's instructions. DO NOT tighten the mounting screws.
- Connect the 4 colored leads in the cartridge shell to the cartridge terminals.
Connect properly by matching the colors of the leads and cartridge terminals.
White = Left output
Blue = Left ground
Red = Right output
Green = Right ground
- Before plugging the cartridge shell into the tone arm, adjust the stylus point of cartridge.
Move the cartridge back and forth to obtain a space of 32 mm between cartridge shell and stylus tip as shown in (Fig. 2).
Fix cartridge in this location by TIGHTENING the mounting screws.
Be sure to keep the cartridge straight in the cartridge shell.
- Plug the cartridge shell into the tone arm and tighten the cartridge shell locking screw by turning it clockwise. (Fig. 1)
- The tone arm used in this turntable has a very low effective mass. It will work best with a low weight, high compliance cartridge. The cartridge weight may vary between 4.5 grams and 6.5 grams with a nominal recommended value of 5.5 grams. The static compliance may vary between 30×10^{-6} cm/dyne and 50×10^{-6} cm/dyne with a nominal value of 40×10^{-6} cm/dyne.

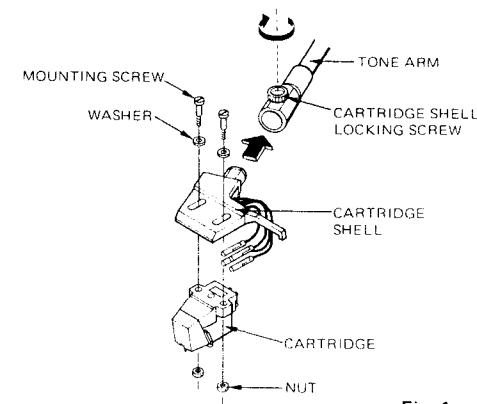


Fig. 1

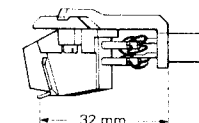


Fig. 2

MECHANICAL ADJUSTMENTS

PICK-UP ARM HEIGHT ADJUSTMENT

When using the cueing lever or the auto-return, perform the pick-up arm height adjustments by turning each adjusting screw as illustrated in Fig. 3.

Turn the adjusting screw clockwise to raise the Pick-up Arm, and counter-clockwise to lower it.

PICK-UP RETURN POSITION ADJUSTMENT

Turn the cam, shown in Fig. 3, clockwise with a flat-bladed screwdriver to shift the return position inward and counter-clockwise to shift it outward. When the cam is turned fully once, it returns to the original position.

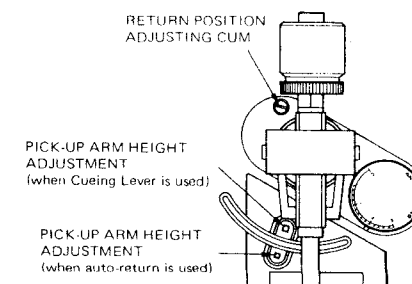
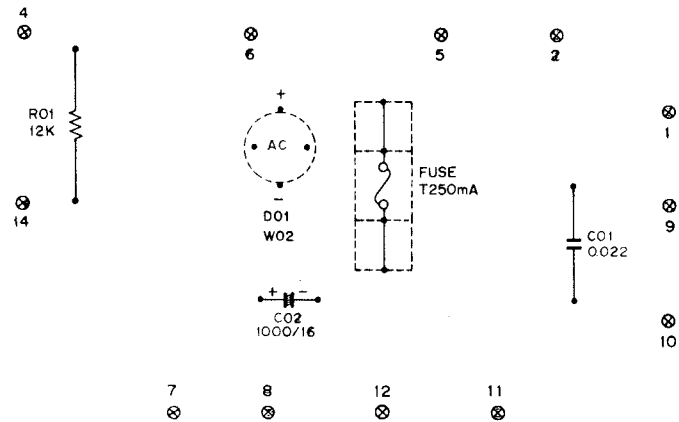


Fig. 3

POWER SUPPLY P.C.BOARD (BOTTOM VIEW)



PARTS LIST

POWER SUPPLY P.C.B. Assy
131 0 4001 00773

Ref. No.	Parts Number	Description	Ref. No.	Parts Number	Description
F02	4 2349 21320	Fuse T 250 mA	SEMICONDUCTOR		
	4 2359 23080	Socket	D01	DGG-W02	Bridge Diode, W02
	4 2372 00060	Receptacle	RESISTOR		
CAPACITORS			R01	R3AXB123A	Oxide Metal Film 12k 1W ±5%
C01	C2EFRM223C-S	Mylar 0.022 μF 250V ±20%			
C02	C1CRE-108A	Electrolytic 1000 μF 16V			

PARTS LIST

PACKING PARTS LIST

Ref. No.	Parts Number	Description
	131 6 1169 02302	Box Corrugate-EXP
	131 6 2119 01470	Bag Polyethylene-EXP (AC Phono Cord)
	131 6 2119 02031	Bag Polyethylene-EXP (Lid)
	131 6 2119 02061	Bag Polyethylene-EXP (Cabinet)
	131 6 2519 01300	Bag Polyethylene Ind.
	131 6 3009 32860	Pad (Parts Box)
	131 6 3009 32870	Pad (Front)
	131 6 3009 32880	Pad (Rear)
	131 6 3009 32900	Pad

ACCESSORIES PARTS LIST

Ref. No.	Parts Number	Description
	131 6 2519 01300	Bag Polyethylene Ind.
	131 6 2719 10801	Bag Fan
	131 6 4119 89804	Explanatory Booklet
	131 6 4519 15700	Guarantee Certificate
	134 2 2901 10700	Adaptor EP

CABINET PARTS LIST

Ref. No.	Parts Number	Description
1	131 0 2022 90281	Lid Assy
	131 2 1107 24200	Lid
	131 2 1310 22104	Name Plate
	131 2 2904 13400	Pad Lid
2	131 0 2002 16800	Hinge Assy
3	131 2 1101 46403	Cabinet
4	131 2 1105 28200	Plate Bottom
5	131 0 1003 14500	Leg Assy
6	131 2 1310 38513	Name Plate
7	131 2 1410 27300	Cover (Cabinet)
8	131 2 1410 28000	Cover (Cabinet)
9	131 2 1601 56800	Knob
10	131 2 1601 76700	Knob
11	131 2 2108 02500	Hinge
12	131 2 2108 02700	Hinge
13	131 2 3305 33200	Panel Front
14	131 2 5203 23600	Felt (Leg Assy)
15	131 2 6111 21300	Bushing (Line Cord)
16	131 2 6113 45400	Shelter (Speed Reject)
17	131 2 6308 21200	Filter (Panel Front)
18	131 2 6308 21600	Filter (Filter)
19	134 2 2403 23900	Angle Mount (Speed Adjust)
20	134 2 2403 24000	Angle Mount (Speed Reject)
21	134 2 4108 28400	Plate (Strobo Cover)
22	134 2 5101 34200	Spring (Reject)
23	134 2 5102 15000	Spring Mounting (Leg Assy)
24	134 2 5205 15300	Cushion
*	131 2 4201 19501	Screw (Screw, Button Head Tapping B-TITE 3)
	17 - 1, 77 - 2, 21 - 2, 19 - 2	
*	131 2 4201 19502	Screw (Screw, Button Head Tapping B-TITE 3)
	20 - 2, 3 - 3	
*	131 2 4201 19900	Screw (SEMS 3x6)

Ref. No.	Parts Number	Description
*	131 2 4201 25203	Screw (B TITE SEMS) 4 - 5
*	131 2 4201 28300	Screw (B TITE SEMS) 13 - 2
*	131 2 4201 25201	Screw (B TYTE SEMS) 72 - 2
*	131 2 4201 21101	Screw 9 - 2
*	131 2 4201 19601	Screw 8 - 2
*	131 2 4201 19505	Screw (Screw, Button Head Tapping B-TITE 3)
	5 - 4	
*	131 2 4201 19500	Screw (Screw, Button Head Tapping B-TITE 3)
	7 - 2	
*	134 2 4203 03300	Washer 13 - 3
*	134 2 4203 02700	Washer 5 - 4

TURNTABLE PARTS LIST

Ref. No.	Parts Number	Description
25	131 2 3101 76800	Metal Mount (Cueing Cam)
26	134 0 5001 13301	Turntable Assy
27	134 0 6001 13600	Unit Plate Assy
28	134 0 6031 12000	Arm Rest Assy
29	134 0 6042 10900	Plate Lifting Assy
30	134 2 1601 16200	Knob (Cueing Lever)
31	134 2 1601 18900	Knob (IFC Knob)
32	134 2 2106 12500	Holder (IFC)
33	134 2 3201 13200	Base Pick-up
34	134 2 4106 21801	Shaft (Arm)
35	134 2 4108 29600	Plate (Cueing)
36	134 2 4116 14000	Spindle Lifting (Base Pick-up)
37	134 2 4121 12300	Guide (Cabinet)
38	134 2 4123 21200	Arm (IFC)
39	134 2 4124 13000	Cam (Cueing Cam)
40	134 2 4201 13000	Screw (Trip Spring)
41	134 2 4201 13201	Screw (Support Arm)
42	134 2 5101 24700	Spring (Lifter Spring)
43	134 2 5101 33600	Spring (Cueing Spring)
44	134 2 5101 34300	Spring (IFC Spring)
45	134 2 5101 34700	Spring (Unit Plate)
46	134 2 5202 11800	Rubber Cushion
47	134 2 6107 12200	Spindle Turntable
48	134 2 6111 10300	Plate Bearing T.T.
49	134 2 6302 11600	Belt
*	104 3 1104 00003	Nut, Hex Head 1 4.0 47 - 1
*	131 2 4220 10502	Ring Snap 43 - 1
*	108 3 1102 00000	Ring E 2.0 36 - 1
*	131 2 4220 10500	Ring Snap 38 - 1
*	131 2 4220 10900	Ring Snap 47 - 1

PARTS LIST (Continued)

Ref. No.	Parts Number	Description	Ref. No.	Parts Number	Description
*	131 2 4201 16700	Screw 47 - 3	*	101 3 1103 00603	Screw, Pan Head 3.0x6 50 - 2
*	131 2 4201 19502	Screw (Screw, Button Head Tapping B-TITE 3)	*	131 2 4201 21100	Screw 58 - 1
*	131 2 4201 19503	Screw (Screw, Button Head Tapping B-TITE 3)	*	131 2 4201 13511	Screw (TAPTITE) 3x14 54 - 1
*	134 2 4201 13600	Screw 46 - 3	*	131 2 4201 19501	Screw (Screw, Button Head Tapping B-TITE 3)
*	131 2 4201 19501	Screw (Screw Button Head Tapping B-TITE 3)	*	131 2 4203 17501	Wave Washer 58 - 1
*	131 2 4201 19802	Screw B-TYTE 28 - 1	*	131 2 4203 83004	Washer, Plain 3.0x13x1 55 - 1
*	134 2 4201 13400	Screw 27 - 1	63	131 2 6103 21100	Cover Shield
*	131 2 4201 29400	Screw (Screw, Pan Head Tapping B-TITE)	64	134 0 4009 02100	Pick-up Assy
*	131 2 4203 83209	Washer, Plain 3.2x18x1.0 32 - 1	65	134 0 4001 10000	Tone Arm Assy
			65-1	134 0 4002 13001	Arm Head Assy
			65-2	134 0 4003 03000	PU Weight Assy
			65-3	134 0 4004 04500	PU Arm Assy
*	105 3 1204 00001	Washer, Spring 4.0 47 - 1	64-1	4 1579 27010	Cartridge (MG-38)
*	131 2 4203 21600	Washer 47 - 2	64-2	4 1579 29430	Stylus (ST-38D)
*	131 2 4203 84201	Washer, Plain 4.2x16x1.6 47 - 1	64-3	134 2 1402 12600	Retainer Needle
			64-4	134 2 4201 11310	Screw (-) 2.6x9
			64-5	134 2 4202 11301	Nut
			64-6	134 2 4203 01800	Washer
*	131 2 4201 19504	Screw (Screw, Button Head Tapping B-TITE 3)	66	134 2 2403 24100	Angle Mount (Pick-up Thrust)
*	131 2 4201 19505	Screw (Screw, Button Head Tapping B-TITE 3)	67	134 2 4117 10600	Support Shaft
*	131 2 4201 19508	Screw (Screw, Button Head Tapping B-TITE 3)	*	131 2 4201 19501	Screw (Screw, Button Head Tapping B-TITE 3)
				66 - 2	
*	131 2 4203 83001	Washer Plain 3.0x12x1 57 - 1	*	131 2 4201 25201	Screw (B TYTE SEMS) 63 - 1
50	134 0 6022 13000	Plate PU Fix Assy	*	131 2 4201 19800	Screw (Screw, Pan Head Tapping B-TITE 3)
51	134 0 6030 11301	Gear Cycling Assy			75 - 1
51-1	134 2 4110 11100	Gear Cycling	68	4 2222 02370	VR 5k-B
51-2	134 2 4122 11800	Trip	69	4 2312 01340	Switch Push 1Key
51-3	134 2 4122 12000	Trip	70	4 2319 21995	Switch Micro
52	134 0 6035 11700	Return Plate Assy	71	4 2432 00071	Line Cord
53	134 2 4106 27000	Shaft (Switch Plate)	72	4 2512 05123	Power Transformer
54	134 2 4108 21000	Plate (Switch Plate)	73	131 0 4004 15003	Wire Shield Assy
55	134 2 4112 02800	Rod (Reject Rod)	74	134 0 5011 02301	Motor Assy
56	134 2 4120 21100	Lever	75	134 2 6102 15700	Mat Turntable
57	134 2 4123 21100	Arm (Return Arm)	76	131 0 4001 06630	Phono P.C.B. Assy
58	134 2 4124 12200	Cam (Return Adjust)	77	131 0 4001 00773	Power Supply P.C.B. Assy
59	134 2 4208 39900	Spacer (Return Arm)	78	131 0 4001 02952	Neon P.C.B. Assy
60	134 2 5101 20500	Spring (Pick-up Fix)	79	131 0 4001 03901	Speed Control P.C.B. Assy
61	134 2 5101 26400	Spring (Switch Plate)			
62	134 2 5101 29500	Spring (Return Plate)			
*	108 3 1104 00000	Ring E 4.0 51 - 1			
*	131 2 4220 10502	Ring Snap 54 - 1			

Note: * Asterisk indicates not a service part.
The numbers for screws, nuts, and washers, shown in Description, correspond with Ref. Nos. of the parts using these screws, nuts and washers.

Example: 3 - 2

3 means	Ref. No.
2 means	Q'ty.

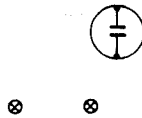
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PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF AN UNIT. COMPONENTS INDICATED BY A MARK  IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAS SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

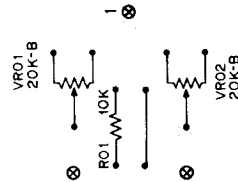
PHONO P.C.BOARD (BOTTOM VIEW)



NEON P.C.BOARD (BOTTOM VIEW)



SPEED CONTROL P.C.BOARD (BOTTOM VIEW)



PARTS LIST

PHONO P.C.B. Assy
131 0 4001 06630

Ref. No.	Parts Number	Description
	CAPACITOR	
C01	C1HYDZ103A	Ceramic 0.01 μ F 50V

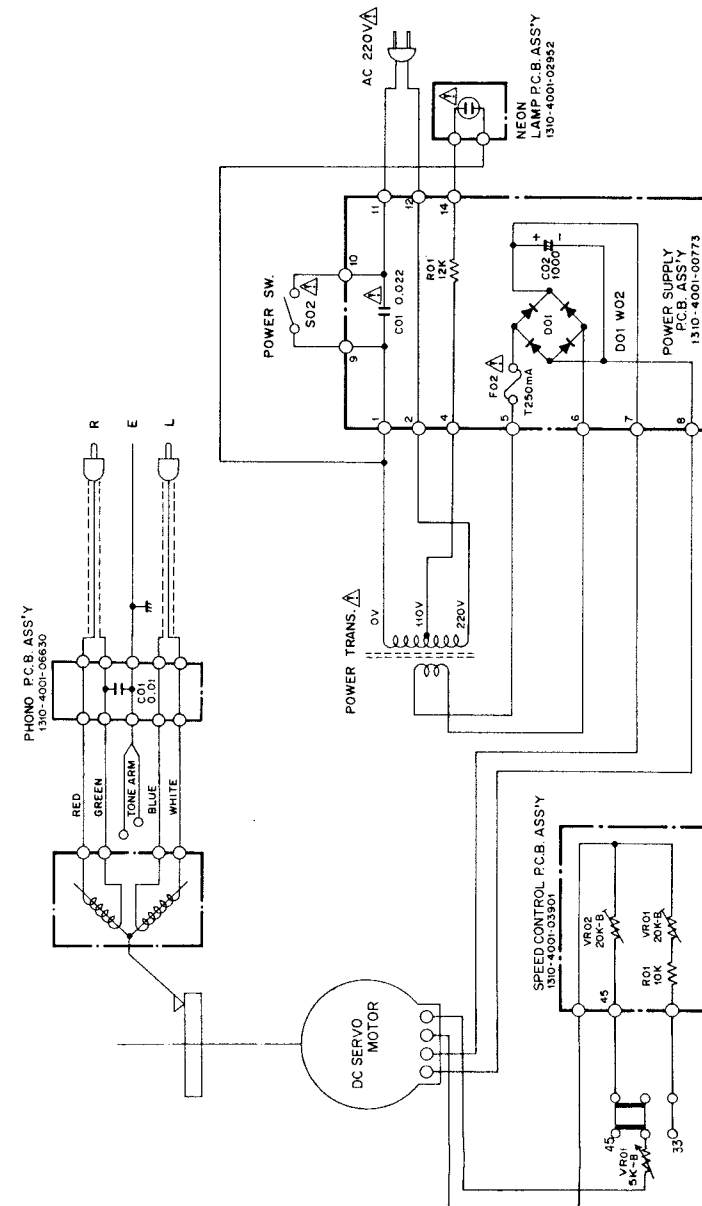
NEON P.C.B. Assy
131 0 4001 02952

Ref. No.	Parts Number	Description
	4 6122 02700	Neon Lamp

SPEED CONTROL P.C.B. Assy
131 0 4001 03901

Ref. No.	Parts Number	Description
	RESISTOR	
VR01,02	4 2222 01040	VR 20K-B
R01	R2EDPJ103A	Carbon 10K 1/4W $\pm$ 5%

SCHEMATIC DIAGRAM



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EXPLODED VIEW OF CABINET & TURNTABLE

